



April 20, 2005

Mr. Noman M. Chowdhury
California Regional Water Quality Control Board
Los Angeles Region
320 West Fourth Street, Suite 200
Los Angeles, California 90013

Subject: Well Destruction Report

**Site: Chevron Service Station No. 9-5619
16725 Pioneer Boulevard
Artesia, California
RWQCB File No. R-00737**

Dear Mr. Chowdhury,

On behalf of Chevron Environmental Management Company (CEMC), Science Applications International Corporation (SAIC) has prepared this report describing groundwater monitoring well destruction activities at the above-mentioned site (Plates 1 and 2). The site was closed by the Regional Water Quality Control Board (RWQCB) in December, 2002. Groundwater monitoring wells were not abandoned at the time of case closure per CEMC request. A copy of the RWQCB closure letter is included as Appendix A.

A well destruction permit was obtained through the Los Angeles County Department of Health Services (LACDHS). A copy of the permit is presented as Appendix B.

On March 23, 2005, SAIC personnel, working under the supervision of a registered geologist, supervised the destruction of monitoring wells MW-1, MW-2, MW-3, and MW-4 (Plate 3). BC² Environmental (BC²), of Fullerton, California, was subcontracted to perform the well destruction activities.

A Tailgate Health and Safety meeting was conducted prior to the start of fieldwork; which included a discussion of relevant safety issues and the route to the local hospital.

The wells were destroyed in general accordance with the State of California Department of Water Resources Bulletin 74-90, *California Well Standards* (1991). The procedures used during destruction of the wells were as follows:

- Each well was sounded for depth to water and total depth immediately prior to abandonment to determine that no obstructions existed.
- Each well was pressure grouted from total depth to approximately 1 foot below ground surface (bgs) with cement-grout slurry.
- Each well was overdrilled to approximately five feet bgs using a truck-mounted hollow-stem auger drill rig. The resulting void was filled with cement slurry to within one foot bgs. Each abandoned well location was finished to grade with the appropriate surface material.

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RWQCB File No. R-00737
Page 2


- Drill cuttings and decontamination water from the destruction of the groundwater monitoring wells were temporarily stored onsite in Department of Transportation (DOT) approved 55-gallon drums. Philip Services Company (PSC), of Carson, California, transported the drill cuttings to TPS Technologies' permitted facility in Adelanto, California, for recycling. Decontamination water was transported to an appropriate disposal/treatment facility. Copies of the non-hazardous waste manifests will be provided under separate cover.

If you have any questions or require additional information, please contact Mr. Daryl Pessler, the SAIC Project Manager, at (714) 257-6404, or Mr. Y.M. Tuan, the CEMC Project Manager, at (714) 671-3373.

Sincerely,

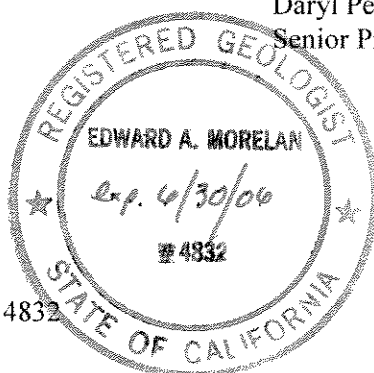
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION


Samuel Lacey
Project Manager


Daryl Pessler
Senior Project Manager



Edward A. Morelan
Registered Geologist No. 4832



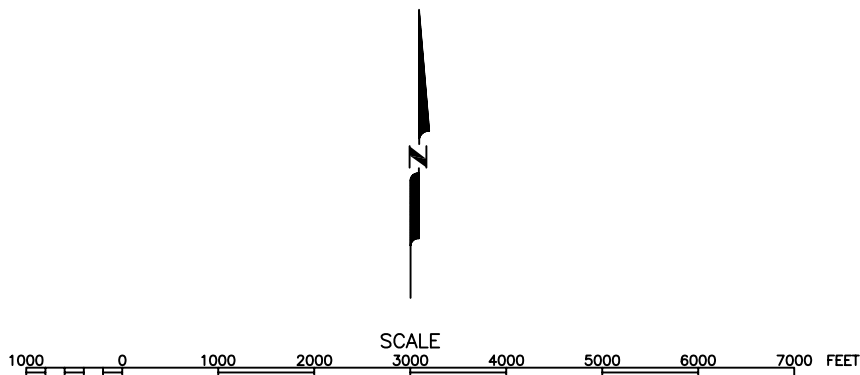
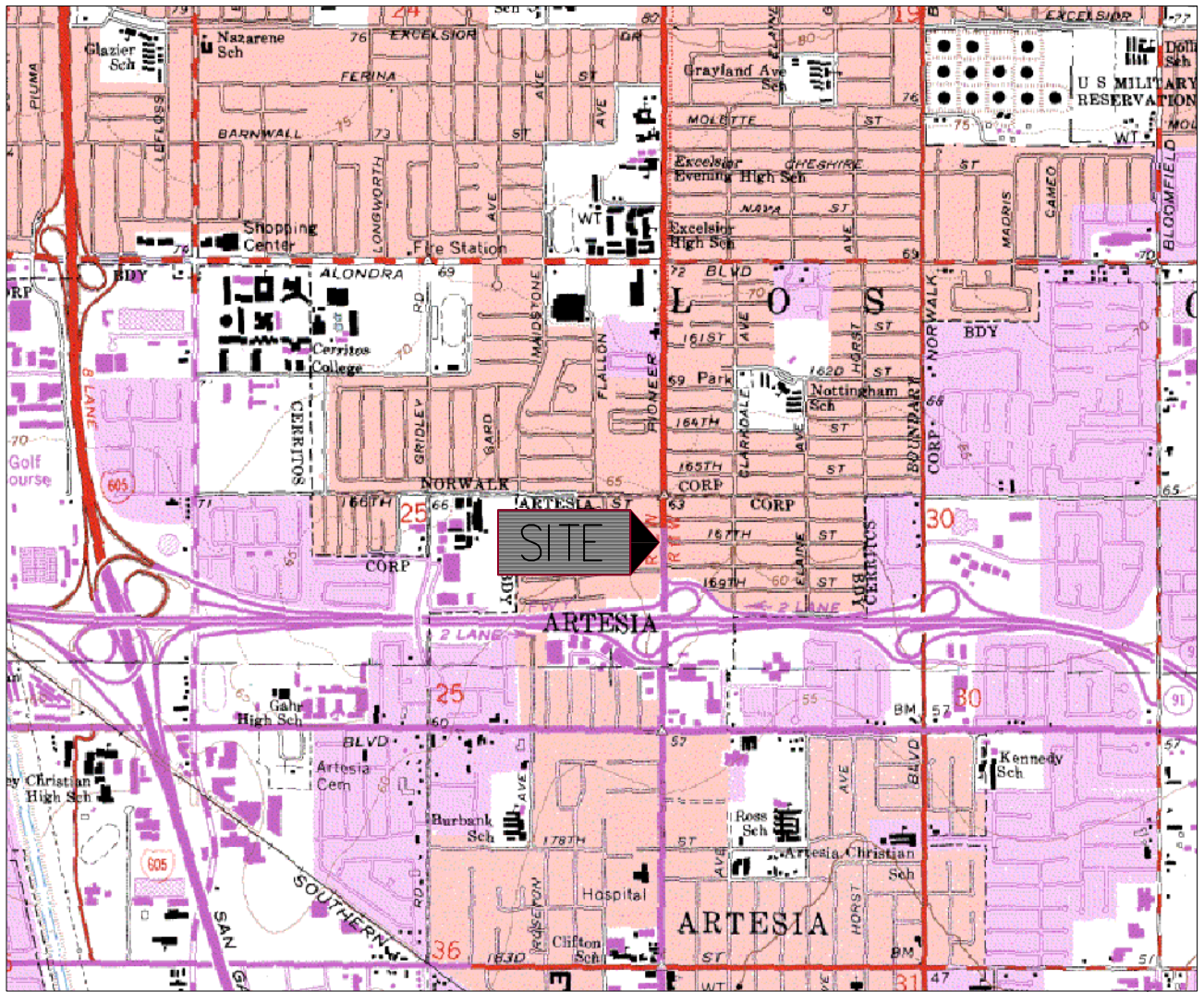
Attachments: Plate 1 – Site Location Map
Plate 2 – Site Vicinity Map
Plate 3 – Site Plan Showing Locations of Abandoned Wells
Appendix A – Copy of RWQCB Closure Letter
Appendix B – Well Destruction Permit

cc: YM Tuan, CEMC
SAIC Project File

Limitation of Use: SAIC's investigation was restricted to collection and analysis of a limited number of environmental samples and visual observations obtained during the physical site visit, and from records made available by CEMC or third parties during the investigation. Because the investigation consisted of collecting and evaluating a limited supply of information, SAIC may not have identified all potential items of concern and, therefore, SAIC warrants only that the project activities under this contract have been performed within the parameters and scope communicated by CEMC and reflected in the contract. SAIC has made no independent investigations concerning the accuracy or completeness of the information relied upon. This report is intended to be used in its entirety. Taking or using in any way excerpts from this report are not permitted and any party doing so does so at its own risk.

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PLATES



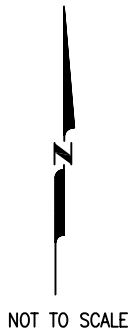
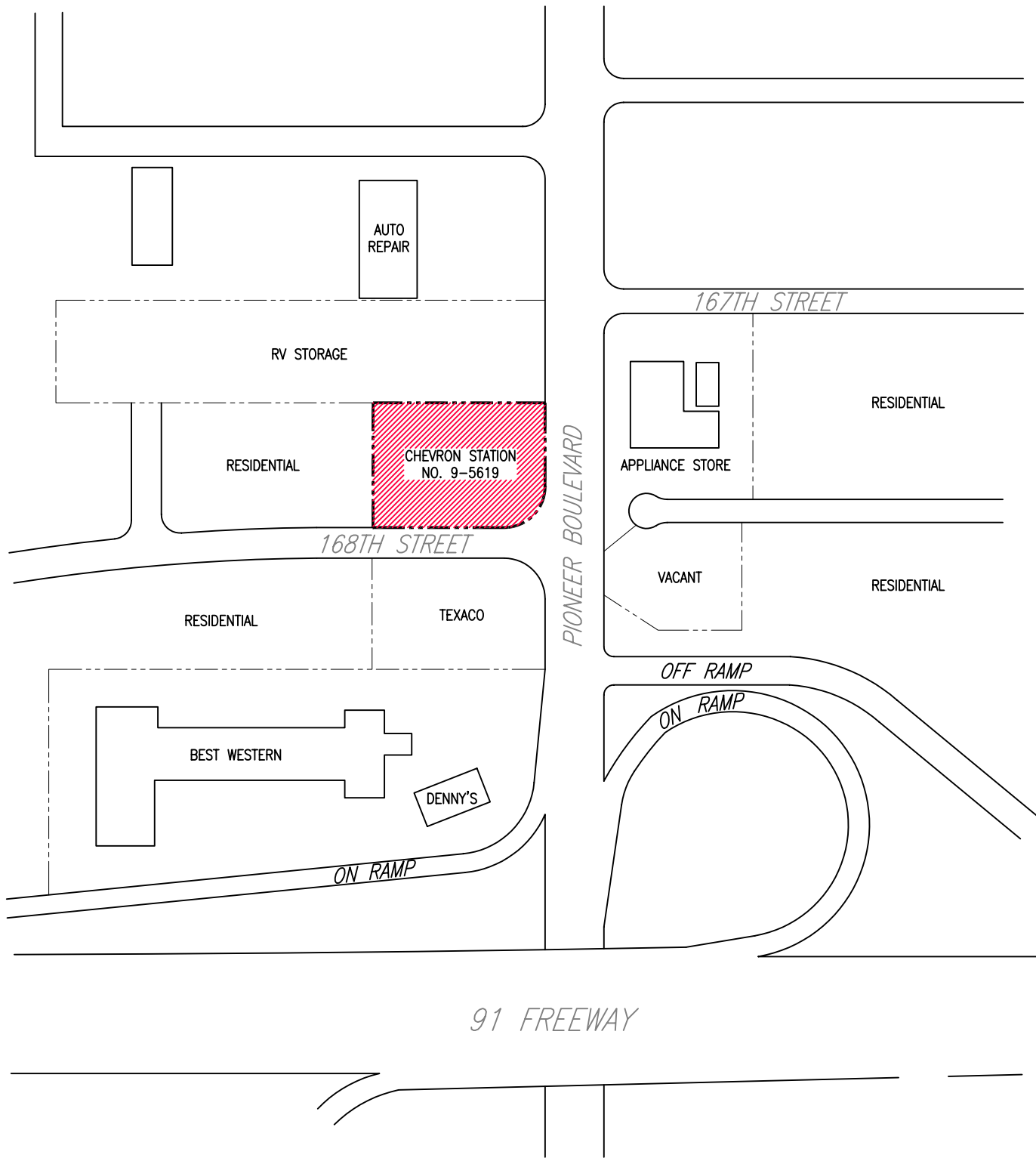
REFERENCES: USGS 7.5-MINUTE QUADRANGLE, WHITTIER, CALIFORNIA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HYDROLOGIC UNIT


Chevron Environmental Management Company
SERVICE STATION NO. 9-5619
16725 PIONEER BOULEVARD
CARSON, CALIFORNIA

SITE LOCATION MAP

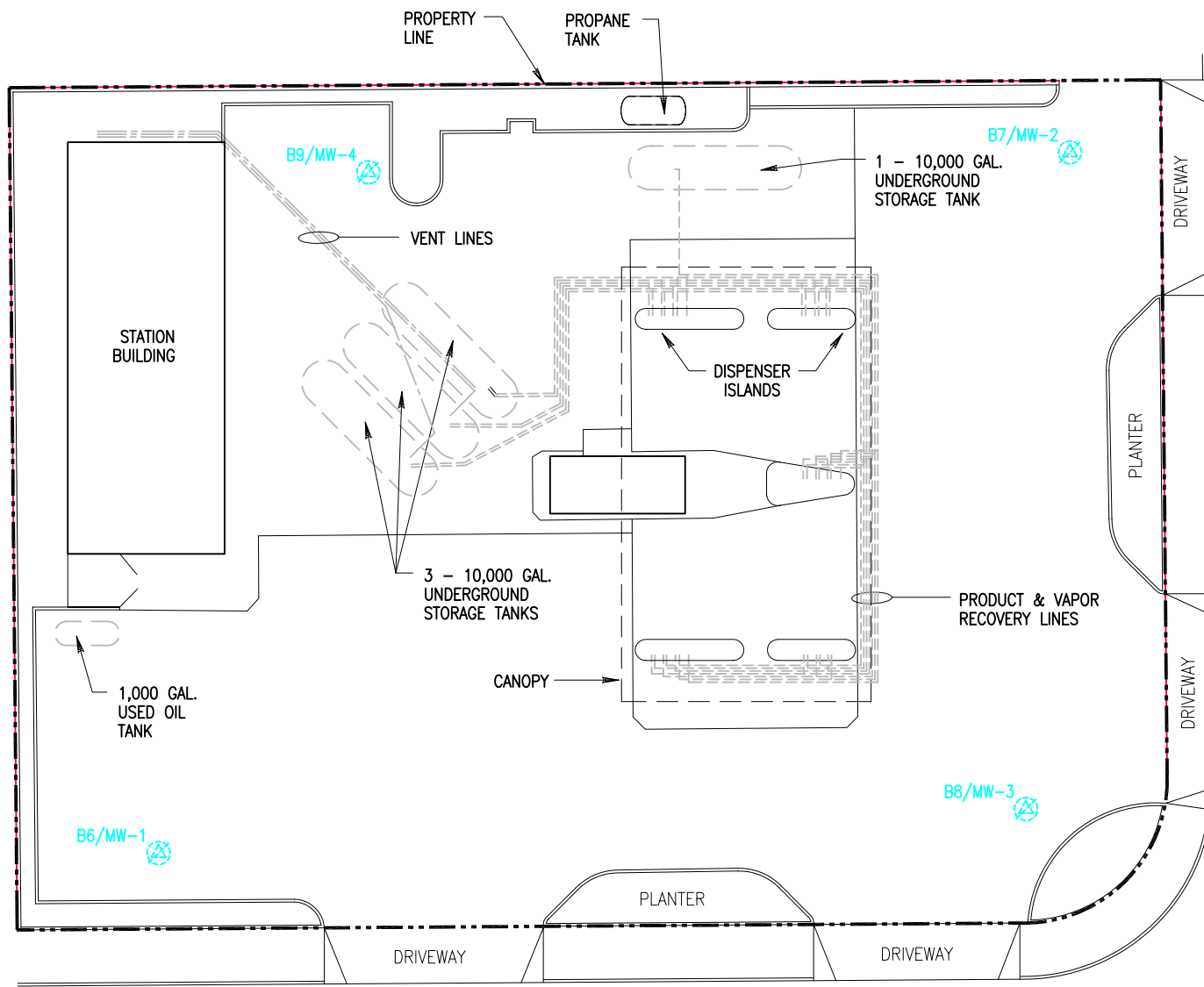
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DATE	03/05	DATE	DATE	1
JOB NO.	06-6102-00-8246-000	FILE NO.	-	

SAIC Science Applications
International Corporation
An Employee-Owned Company



Chevron Environmental Management Company				
SERVICE STATION NO. 9-5619 16725 PIONEER BOULEVARD CARSON, CALIFORNIA				
SITE VICINITY MAP				
DRAWN	HDS	CHECKED	APPROVED	PLATE NO.
DATE	03/05	DATE	DATE	2
JOB NO.	06-6102-00-8246-000		FILE NO.	
 Science Applications International Corporation An Employee-Owned Company				

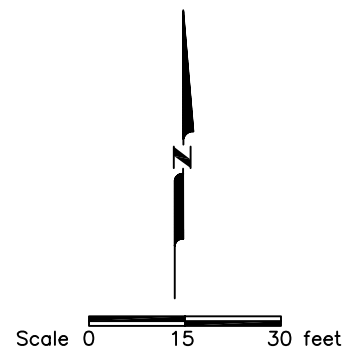
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168th STREET

PIONEER BOULEVARD

EXPLANATION
B7/MW-2
ABANDONED GROUNDWATER MONITORING WELL LOCATION



Chevron Environmental Management Company
SERVICE STATION NO. 9-5619
16725 PIONEER BOULEVARD
ARTESIA, CALIFORNIA

SITE PLAN SHOWING LOCATIONS
OF ABANDONED WELL

DRAWN	HDS	CHECKED	APPROVED	PLATE NO.
DATE	03/05	DATE	DATE	3
JOB NO.	06-6102-00-8246-190		FILE NO.	

Science Applications
International Corporation
An Employee-Owned Company

APPENDIX A

COPY OF RWQCB CLOSURE LETTER



Winston H. Hickox
Secretary for
Environmental
Protection

California Regional Water Quality Control Board

Los Angeles Region

Over 50 Years Serving Coastal Los Angeles and Ventura Counties
Recipient of the 2001 Environmental Leadership Award from Keep California Beautiful

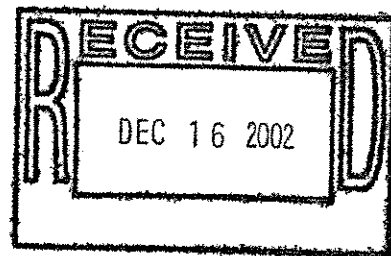
320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: <http://www.swrcb.ca.gov/rwqcb4>



Gray Davis
Governor

December 3, 2002

Mr. Y. M. Tuan
Chevron U.S.A. Products Company
145 S. State College Blvd., Room # 4090
Brea, CA 92822-2292



UNDERGROUND TANKS PROGRAM – SITE CLOSURE
CHEVRON SERVICE STATION NO. 9-5619
16725 PIONEER BOULEVARD, ARTESIA (CASE NO. R-00737; CLEANUP FUND NO. 16030)

Dear Mr. Tuan:

This letter confirms the completion of a site investigation and corrective action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground tank(s) site is in compliance with the requirements of subdivision (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

If you have groundwater monitoring wells and/or vapor extraction wells at the subject property, you must comply with the following:

1. All wells must be properly located and abandoned.
2. Well abandonment permits and all other necessary permits must be obtained from the appropriate agencies prior to the start of work.
3. You must submit a report on the abandonment of the wells to this office by **January 3, 2003**. This report must include, at a minimum, a site map, a description of the well abandonment process, and copies of all signed permits.

California Environmental Protection Agency

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption
For a list of simple ways to reduce demand and cut your energy costs, see the tips at: <http://www.swrcb.ca.gov/news/echallenge.html>



Recycled Paper

Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

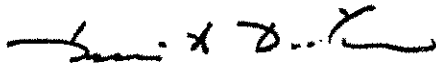
Mr. Y. M. Tuan
Chevron Service Station No. 9-5619

- 2 -

December 3, 2002

Please contact Mr. Noman M. Chowdhury at (213) 576-6704 if you have any questions regarding this matter.

Sincerely,



Dennis A. Dickerson
Executive Officer

cc: Mr. Hari Patel, State Water Resources Control Board, Underground Storage Tank Cleanup Fund
Mr. Tim Smith, Los Angeles County Department of Public Works, Environmental Programs Division, Underground Tanks
✓ Mr. Daryl Pessler, Harding ESE, Inc.

California Environmental Protection Agency

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption
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Recycled Paper

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APPENDIX B
WELL DESTRUCTION PERMIT

NON-PRODUCTION WELLS

DATE: 3/21/05

<input type="checkbox"/> NEW WELL CONSTRUCTION <input type="checkbox"/> RECONSTRUCTION OR RENOVATION <input checked="" type="checkbox"/> DECOMMISSIONING <input type="checkbox"/> OTHER: _____	<input checked="" type="checkbox"/> MONITORING <input type="checkbox"/> CATHODIC <input type="checkbox"/> INJECTION <input type="checkbox"/> EXTRACTION	<input type="checkbox"/> HEAT EXCHANGE <input type="checkbox"/> OTHER (Specify): _____
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WELL LOCATION	SITE ADDRESS 16725 Pioneer Blvd.		CITY Artesia	ZIP CODE 90701
	Township	Range	Section	Map Book Page/ Grid 736/H6
	NO. OF WELLS IN EACH PARCEL: 4			

Attach site map with well locations

WELL STRUCTURE	Type and Size of Production Casing	
	Sanitary / Annular Sealing Material	
	Depth of Sanitary / Annular Seal	
	Conductor Casing Seal	

Company	SAIC
Contact Person	William Maloney
Address	590 W Central Ave
City, State Zip	Brea, CA 92821
Telephone	714-257-6439

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

Well Owner	Chevron
Address	145 S. State College Blvd.
City / Zip Code	Brea / 92822
Telephone	714-671-3373
Well Driller	BC 2
Address	
City / Zip Code	Fullerton / 92831
C-57 License No.	686255
Telephone	714-449-2990

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS
APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL
CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE
WORK PLAN APPROVAL FROM THIS DEPARTMENT.

WORK PLAN APPROVAL
This Approval is Valid for 180 Days

Date 03-22-05	REMS Robert Hughes
Conditions	

Please follow Mihye's instruction.

WELL DEPTH/ISSUING	Well Depth log / records	33.15 ft - 35.45 ft.
	Method of Well Assessment	
	Depth and Number of Perforations	
	Type of Perforator Size of Perforations	
	Type and Amount of Sealant	Cement-bentonite grout
	Method of Upper Seal Pressure Application	Pressure grouted with volclay grout

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Applicant's Signature

Applicant Name: (PRINT)
Telephone:

FINAL INSPECTION	
Date	REMS
PERMIT ISSUED	
The well log must be submitted to this Department prior to issuance of the final approval	
Date	REMS